

**(19) World Intellectual Property Organization
International Bureau**



(43) International Publication Date
23 October 2003 (23.10.2003)

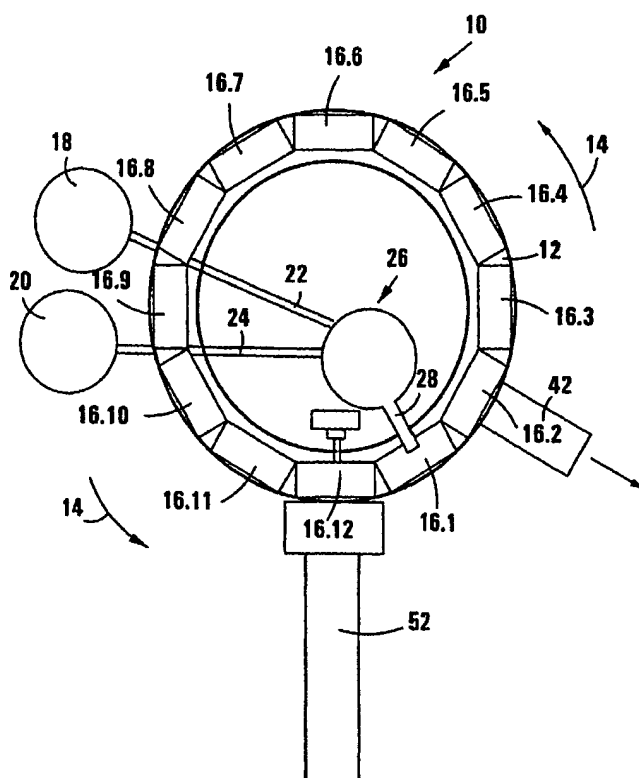
PCT

(10) International Publication Number
WO 03/087028 A1

- | | |
|---|--|
| <p>(51) International Patent Classification⁷: C07C 51/41, C07F 9/09, C07C 53/122, 53/10, 59/265</p> <p>(21) International Application Number: PCT/IB02/01554</p> <p>(22) International Filing Date: 8 May 2002 (08.05.2002)</p> <p>(25) Filing Language: English</p> <p>(26) Publication Language: English</p> <p>(30) Priority Data: 2002/2902 12 April 2002 (12.04.2002) ZA</p> <p>(71) Applicants (for all designated States except US): TECHNICAL AND COMMERCIAL SERVICES INTERNATIONAL LIMITED [GB/GB]; 8 Bedern Bank, Ripon, York, Yorkshire HG41PE (GB). FORUM PRODUCTS LIMITED [GB/GB]; 41 - 51 Brighton Road, Redhill, Surrey RH16YS (GB).</p> | <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): STEDMAN, David, George [ZA/ZA]; 43 Hartshorne Street, Rynfield, 1501 Benoni (ZA). KENYON, Robert, Fletcher [GB/GB]; 156 Croydon Road, Reigate, Surrey RH20NG (GB).</p> <p>(74) Agent: FORBES, Craig, Paul; Adams & Adams, Adams & Adams Place, 1140 Prospect Street, Hatfield, PO Box 1014, 0001 Pretoria (ZA).</p> <p>(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.</p> <p>(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),</p> |
|---|--|

[Continued on next page]

(54) Title: A METHOD OF MAKING SALT



(57) Abstract: A method of making the salt of an acid, includes the steps of combining and mixing the acid and a base selected from the oxides, hydroxides and carbonates of sodium, potassium, calcium and magnesium, in a first reaction zone over a first period to produce a reaction mixture. The reaction mixture is transferred at the end of the first period from the first reaction zone to a second reaction zone the transferring step being carried out over a second period. Heat generated by reaction between the acid and the base in the second reaction zone drives off sufficient water to produce a product mixture containing less than about 8 % (m/m) water. The first period is between about 1 and 180 seconds and the second period is between about 2 and 60 seconds.

WO 03/087028 A1